







NL1:

Fig. 1. 3

60 $\tt CTCCTCCTGGTGGGGCCTGTCTGGGTGAAGCCCCTCTGTTCCCGAGGATCGTCCCA$ ACCCCAGCCGGGTGCTCCGAGCCATGGCCGACACCATCTTCGGCAGCGGGAATGATCAG 180 MADTIFGSGNDQ 12 TGGGTTTGCCCCAATGACCGGCAGCTTGCCCTTCGAGCCAAGCTGCAGACGGGCTGGTCC W V C P N D R Q L A L R A K L Q T /G W S GTGCACACCTACCAGACGGAGAAGCAGAGGAGGAAGCAGCACCTCAGCCCGGCGGAGGTG 300 V H T Y Q T E K Q R R K Q H L S P A E V 52 GAGGCCATCCTGCAGGTCATCCAGAGGGCAGAGCGGCTCGACGTCCTGGAGCAGCAGAGA 360 EAILQVIQ RAERL DV LE 72 ATCGGGCGGCTGGAGCCGCTGAGACCATGAGGCGGAATGTGATGGGGAACGGCCTG I G R L V E R L E T M R R N V M G N G L 92 TCCCAGTGTCTGCGGGGGGGGGGTGCTGGGCTTCCTGGGCAGCTCGTCGGTGTTCTGC 430 S Q C L L C G E V L G F L G S S S V F C 112 AAAGACTGCAGGAAGGTCTGGAAGAGGTCGGGGGCCTGGTTCTACAAAGGGCTCCCCAAG 540 K D C R K V W K R S G A W F Y K G L P K 132 TATATCTTGCCCCTGAAGACCCCTGGCCGAGCTGATGAGCCCCAGTTCCGACCTTGGCCC 600 YIL PLK TP GRADE PQ 152 ACGGAACCGGCAGAGCCCAGAAGCTCTGAGACCAGCCGCATCTACACGTGGGCC 660 TEPAEREPRS SET SRIY TWA 172 CGAGGAAGAGTGGTTTCCAGTGACAGTGACAGTGACTCGGATCTTAGCTCCTCCAGCCTA 720 RGRVVS SD SDS DL SS S S L 192 GAGGACAGACTCCCATCCACTGGGGTCAGGGACCGGAAAGGCGACAAACCCTGGAAGGAG 780 E D R L P S T G V R D R K G D K P W K E 212 TCAGGTGGCAGCGTGGAGGCCCCCAGGATGGGGTTCACCCAACCCGCGGGCCACCTCTTT 840 R M G F T Q P A G H L F 232

GGG1	TG	CAGA	GCP	AGC	CTGC	GCCF	\GTG	GTG	AGA	CGG	GCF	CAG	GCI	CTG	CŤG	ACC	CGC	CAC	GG	900 [,]
G	L '	Q	s	s	L	A	s	G	E	Т	G	T	G	ŗS	A	D	P	P	G	2,52
GGAG	GG?	ACAG	GC1	тСТ	GCT	BAC	CCGC	CAG	GGG	GAC	ccc	CGÇC	ccc	GGC	TGP	CCC	GAA	GGC	SCC	960
G	G	т	G	s	A	D	P	P	G	G	P	R	P	G	L	T	R	R	A	272
CCG	ATE.	AAAG	AC	ACA	CCT	GGA(CGAC	3CC	CCG	CTC	GCŢ(GACG	CAG	CTC	CAC	GCAG	GCC	CC	rcc	1020
P	v	κ	D	T	₽	G	R	A	P	Α	A	D	A	Α	P	A	G	P	s	292
AGC'	rgc	CTGG	GC	ГGА	GGT	GTC'	rgg:	rgc	CTGG	AAG	CAG	чстт	cc	CTGI	'GG/	AGGA	TTC	CTC	3CC	1080
s	С	L	G	*																296
AGA	ccc	TGCC	CCG	GCT	CCT	ccc	TGA	CCG	GTCC	ттс	GTG(CCC1	CA	CCAG	AC	ACCO	CTGT	TG	GCC	1140
ATG.	ACT	CAAC	AA:	ACC	AGT	GTT	GGG	AGC	CGTC	CTG	ССТ	ccc	CAG	CTĆ <i>I</i>	\GT(GCCI	TT	CTG	CAC	1200
ccc	TTC	тстс	ст	GGG	GAG	CTG	TCT	GCA'	TCCC	GC.	ACC	CCC	rcc	AAC	CAC'	rgco	СТС	CAG	cċc	1260
CCG	ACC	TTAT	rtt	AT'l	racc	стс	ccc	TCC	CAC	ACC	ccc	AAT	CTA	CCT	GGT	GAT	GAT	ттт	AAG	1320
ттт	GCG	CGT	3TC	ттс	GGT	'TGG	GCT	GGG	GGG'	ГТТ	ccc	ACA	TGC	AGT	GTC	AGA	GGG	GCC	GCC	1380
CGG	TGG	GGC	ľAT	сто	CCGI	TGC	TAT	ATT	AAT	GGC	AAG	ACT.	AAA	TGA.	AAC	CTA	GGG	CAC	GGC	1440
CTC	CGA	AGC!	rgc	GTO	g T GC	3CCC	стт	AGA	GGT	GAG	CAT	'CAG	AGC	CAG	AGC	AGT	GAG	GGG	GAG	1500
ACT	CAC	CCA	ccc	TC	rccc	CTCI	ccc	TTC	AGC	TCT	GGG	AGG	CAG	GCG	CAG	TGC	ccc	CCI	ccc	1560
ATG	GGC	TGG	ccc	AGG	GACC	CGCG	GGT	'GAP	ACC	TGG	GTC	TGT	TTF	GTT	TCT	TTG	GTT	ттп	GTA	1620
TGT	TTG	TTT	GTT	TT	rgac	CAC	AGTC	TCC	CTT	TGT	TGC	CCA	GGC	TGG	GĠΊ	'GCA	GTG	GCF	ACGA	1680
TCG	CGG	CTC.	ACT	'GC	AACC	CTC	CACC	TCC	CGG	GCT	'CAF	GCG	АТТ	CTC	TCP	CCT	CAG	CCI	CCT	1740
GAG	TAC	GTG	GGP	TT	ACAC	3ATC	3CCC	GCC	CACC	ACA	CCC	CAGT	TAF	\TTT	ттс	TAT	ттт	'TAC	BAAG	1800
AGA	TGC	GGT'	TTC	CTC	CATO	3TTC	3GCC	AGG	CTG	GTC	TTC	SAAC	TCC	CTGG	TCI	CAA	GTG.	ATO	CCGC	1860
CCG	CC1	rcgg	CCI	rcc	CAA	AGT(GCT (GG <i>I</i>	ATTA	CAG	GTO	STGA	.GC	CACC	GCF	CCC	CAA	CCI	TTAT	1920
AGG	TT	гстт	TGF	\AT	ccc	CTC!	ATG0	GCC1	rgcc	TGC	TTT	TTG	СТС	CAGO	CTC	STCT	TCF	\GC'	ГТGA	1980
GGF	\GC'	rggg	AAC	зст	CTG	GTG(3AT(GCT?	ATGA	ACT	CAC	CTTG	CTC	SAAG	AGO	CAGC	GTT	CAC	3GTG	2040
CAT	rcc	CCAG	CCI	AGG	GCA	CGT	GGC1	rcc	CTCA	GCC	CAT	SAAT	TC	ACTT	сто	CTTC	AGO	AGG	ЭТТТ	2100
GGG	CTT	GGCA	TG	AA.A	ATA	CTT	CAT:	rcag	GAGT	'ATC	3GG(CAAA	ΛTG	CTTC	TG	3AAA	ACC	CT'	rccc	2160
TG	\AG	AGAG	AG	AAC	GTG'	TGT	GTG'	rgt	GTCG	GT	зато	CACA	ACC	CTCC	CA'	rcci	TCC	CTG	CCTC	2220
CT	GCC	CCAA	AC	ccc	:GGG	TTC	CTG	GGT(CTGG	AA:	3GG	CCTI	СТ	CTCC	CAA	GCT (GG/	AGC'	TCCT	2280
GGG	3CC	CCCA	CC	ТТА	'CAC	TTT'	TTG	rcci	rtgc	TGC	CTG	3CAA	AC	AGTA	AAG	AAA	CTC	AC.	гттс	2340
CC'	rgt	GGCA	\CG'	TTA	TGC	TTC.	AGAZ	ጓ ፐፒዖ	ዺ ልዾ	CA	ATĠ?	A AGA	TT	Վ გგ	L.					2385

Fig. 2

CL1:

60	GGC	AGC	GAG	AGG	'GGG	GGT	3GT	AAC	GAC	ccc	ACC	GTC	'CGG	ACCI	AAC?	GGF	\TCT	TCP	rcc	GGC'
120	CCA	GTC	ATC	AGG	CCG	TTC	CTG	CCT	GCC	'GA,	GGT	'CTG	TGT	GGCC	GGG	GGT	CCT	CTC	CTC	CTC
180	CAG	'GAT	AAT	GGÇ	AGC	GGC	rtc	ATC'	ACC	GAC	GCC	ATG	\GCC	CCGA	CTC	GTG	CGG	AGC	ccc	ACC
12	Q	D	И	G	s	G	F	I	T	D	A	M								
240	TCC	TGG	GGC	ACG	CAG	CTG	AAG	GCC	'CGA	CTI	GCC	CTT	CAG	CCGG	'GA	:AA1	ccc	TGC	ЭTТ	TGG
32	s	W	G	T	Q	L	ĸ	A	R	L	A	L	Q	R	D	N	P	С	V	W
300	GTG	GAG	GCG	CCG	AGC	etc	CAÇ	CAG	AAG	AGG	AGG	CAG	AAG	G AG	ACC	CAG	TAC	ACC	CAC	GTG
52	v	E	Α	P	s	L	н	Q	к	R	R	Q	к	E	T	Q	Y	T	Н	V
360	AGA	CAG	CAG	GAG	СТG	ЭТС	BAC	CTC	CGG	GAG	GCA	AGG	CAG	CATC	GTO	CAG	CTG	ATC	GCC.	GAG
, 72	R	Q	Q.	E	L	v	D	L	R	E	A	R	Q	I	V	Q	L	I	A	E
420	CTG.	GGC	AAC	GGG	ATG	STG	\AT	CGG	AGG	АТС	ACC	GAG	CTG	GCGG	GAG	GTG	CTG	CGG	GGG	ATC
92	L	, G	N	G	M	v	И	R	R	М	T	E.	L	R	E	V	L	R	G	I
480	TGC	TTC'	GTG	TCG	TCG	AGC	GC.	CTG	TTC	GGC	CTG	GTG	GAG	CGGG	CTGC	стс	'CTG	TGT	CAG	TCC
112	C	F	V	s	s	s	G	L	F	G	L	V	E	G	С	L	L	C	Q	s
540	AAG	CAG	GGC	CCT	TCC	3CC	SAG	ATC	GGG	TGT	ААА	ACC	TGC	AGTC	AA	AAG	AGG	TGC	GAC	AAA
132	к	Q	G	P	s	A	E	I	G	С	к	Т	С	V	к	ĸ	R	С	a	ĸ
600	GGG	TCG	AGG	AAG	TGG	STC	3AG	AGA	CAA	GAG	AGI	TGC	ATC	PAA 1	TG	CTG	TGG	СТС	ccc	CGG
152	G	s	R	К	W	V	E	R	Q	E	s	С	, I	К	С	L	W	L	P	R
660	GCT	CGA	GGC	CCT	ACC	٩AG	CTG	ccc	TTG	'ATC	TAT	AAG	ccc	3CTC	\GG(AAA:	TAC	TTC	rgg	GCC'
172	A	R	G	P	Ŧ	ĸ	L	P	L	I	Y	K	P	L	G	к	Y	F	W	A
720	тст	AGC'	AGA	ccc	.GAG	CGA	3AG	GCA	.CCG	GAA	ACG	ccc	TTG	ACCT	CGA	TTC	CAC	ccc	GAC	GAT
192	s	s	R	P	E	R	E	A	P	E	T	₽	L	P	R	F	Н	P	D	D
780	እ ር ሞ	GAC	a Cሞ	GAC	ልርጥ	rcc	<u>፡</u> ሞጥ	ርጥር	AGA	add.	CGA	GCC	ጥርር	CACG	TAC	- ATC	CGC	AGC	ACC.	GAG <i>I</i>
														Т					т	E
212	_	D AGG0	S																-	
840	<i>i</i> AC	AGG(GTC.	GGG	ACI'	ı CC	,CAʻ							.100						

CGGA	AAG	GC	GACA	AA.	CCCI	'GGA	\AG G	AGI	CA	GGT	GC?	AGCG	TGC	BAG	GCCC	CCC	AGGA	TGC	GG	900
R	к	G	D	к	P	W	ĸ	E	s	G	G	S	V	E	A	P	R	М	G	252
TTCF	CCC	CAA	ccc	GCG(GGCC	CAC	CTCI	ттс	3GG	TTG	CAG	AGÇA	\GC(CTG	GCCI	AGT	GTG	AGF	ACG	960
F	T	Q	P	A	G	Н	L.	F	G	L	Q	s	s	L	A	s,	G	E	Т	272
GGC	CAC	3GC	TCT	3CT	GAC	CCG	CCAC	GGG	зgа	GGG	ACA	GGC1	СТС	GCT	GAC	CCG	CCAG	GGG	GGA.	1020
G	T	G	s	A	D	P	P	G	G	G	T	G	s	A	D	P	P	G	G	292
ccc	CGC	ccc	GGG	CTG	ACC	CGA	AGGG	ccc	CCG	GTA.	AAA	GAC	ACA(CCT	GGA	CGA	GCCC	ccc	SCT	1080
P	R	P	G	L	T	R	R	A	P	V	K	D	T	P	G	R	A	P	A	312
GCT	GAC	GCA	GCT	CCA	GCA	GGC	CCC'	rcc	AGC	TGC	CTG	GGC'	rga	GGT	'GTC'	TGG	TGC	CTG	GAA	1140
A	Ø	A	A	P	A	G	P	s	s	С	L	Ģ	*							325
CAG.	ACT	TCC	CTG	T GG	AGG.	тта	CCT	GCC.	AGP	CCC	TGC	CCG	GCT	CCI	ccc	TGA	.CCG(GTC	СТТ	1200
GTG	ccc'	TCA	CCA	GAC	ACC	СТG	TTG	GCC	ATC	SACT	CAA	CAA	ACC	AG'	rgtt	GGG	GAGC	CGT	CTG ·	1260
CCT	ccc	CAG	CTC	AGT	'GCC	ттт	CTG	CAC	ccc	CTTC	TCI	CCT	GGG	GAG	3CTG	TCI	GCA	TCC	GCC	1320
ACC	ccc	TCC	CAAC	CAC	TGC	CCT	CAG	ccc	ccc	SACC	TTP	TTT	PTA	'AC	CCTC	ccc	стсс	CAC	ACC	1380
CCC	AAT	CTF	CCT	'GGI	GAT	GAT	TTT.	AAG	TT	rgce	CGI	GTC	ттс	igg'	rtge	GC1	rggg	GGG	TTT	1440
ccc	ACA	TGO	CAGT	GTC	CAGA	.GGG	GCC	GCC	CG	3TGC	GGG	TAT	CTC	CG'	ГТGC	CTAT	TATT	TAAT	'GGC	1500
AAG	ACT	'AA'	ATGA	AA	CTA	GGG	CAC	GGC	CT	CCGI	AAG	CTGC	GTC	T G	GCCC	CT:	raga	GGT	GAG	1560
CAT	CAG	AG	CCAG	AGG	CAGT	'GAG	GGG	GAC	SAC'	TCAG	CCC	ACCC	TCI	rcc	CTCI	rcc	CTTC	AGC	CTCT	1620
GGG	AGG	CA	GGC6	CAC	3 TGC	ccc	CCT	ccc	CAT	GGG	CTG	GCC	CAGO	GAC	CGC	3GGʻ	rgaa	ACC	CTGG	1680
GTÇ	TGT	TT	AGTI	rTC'	rtte	GTT	rtti	GT?	ΑTG	TTT	3TT	rgtī	TT	rga	CAC	4GT	CTCG	CTI	TGT	1740
TGC	CCF	AGG	CTG	3GG'	rgc <i>p</i>	\GT(GCP	CGZ	чтс	GCG	GCT	CACI	GC	AAC	CTC	CAC	CTCC	CCGC	GCT	.1800
CAF	\GC0	TAE	тстс	CTC	ACCI	CAC	GCCI	'CC'	rga	GTA	GGT	GGGI	\TTZ	ACA	GAT(GCC	CGCC	CAC	CACA	1860
ccc	AGI	AT'I	ATT 1	rtt.	GTAT	rTT'	TTAG	AAG	GAG	ATG	GGG	ттт	CTC	CAT	GTT	GGC	CAG	GCT(GGTC	1920
TTC	AAE	CTC	CTG	GTC	TCA	AGT(GATO	CCG	ccc	GCC	TCG	GCC	rcc	CAA	AGT	GCT	GGG <i>I</i>	ATT?	ACAG	1980

GTGTGAGCCACCCAATCCTATTAGGTTTCTTTGAATCCCCTCATGGCCTGCCT	2040
TTTTTGCTCAGCCTGTCTTCAGCTTGAGGAGCTGGGAAGCTCTGGTGGATGCTATGAACT	2100
${\tt CACTTGCTGAAGAGCAGCGTTCAGGTGCATCCCCAGCCAG$	2160
ATGAATTCACTTCTCTAGGAGGTTTGGCTTGGCATGAAAATACTTCATTCA	2220
${\tt GGCAAATGCTTCTGGAAAACCCTTCCCTGAAGAGAGAGAACGTGTGTGT$	2280
ATCACACCCTCCCATCCTTCCTGCCTCCTGCCCCAAACCCCGGGTTCCTGGGTCTGGAAG	2340
${\tt GGCCTTCTCCAAGCTGGGAGCTCCTGGGCCCCCACCATTCACTTTTTGTCCTTGCTGC}$	2400
${\tt TGGCAAACAGTAAAGAAACTCACTTTCCCTGTGGCACGTTATGCTTCAGAATTAAAACAA}$	2460
TGAAGATTAAAA	2472

Fig. 3

CL2:

60	3GC	BAGC	GAG	AGG	3GG/	GTC	GTG	ACG	ACA	cce	ccc	TCA	GGG	CCTC	ACA	GA.	CTC	CAT	rcci	GGCI
120	CCA	CGTC	ATC	AGG	CCG	TC	TGT	CTC	ccc	AAC	GTG	TGG	GTC	3CCT	3GG	3GT(ссто	TCC	CTCC	CTCC
180	CAG	rgat(LAA	GGG.	AGC	GC	TÇČ	TCI	CCP	AC!	CCC	\TGG	CCF	CGAG	CTC	GTG(CGGC	\GC(CCC	ĄĊĊĊ
240	AGT _.	CAGC	CAC	CTG	rga(AC'	AGC	CCF	GAC	стто	cco	TTG	AGO	CGGC	BAC	LAP	ccci	'GÇ(3TTI	TGGG
300	GGC	GACG	CAG	СТG	AGG	AG	GGC	GT	CAC	AGC	AAA	CTT	GGT	CCCT	AGT	CAC	CAA	AC	CAG	GAAG
360	GCG	cccg	AGC	CTC	CAC	AG	AGC	.GG/	\GG/	CAG	AG	BAGA	.CG	CAGA	rac	ACC'	CAC	T G	rcgo	TGGT
420	CAG	GGAG	CTC	GTC	GAC	TC	CGGC	AGG	CAC	AGG	AG	\TCC	TC	CAGG	CTG	ATC	GCC	3AG	GTG	GAG
480	AAC	GGGG.	ATO	GTG	AAT	GG	AGGG	TG	ACC?	3AG	ŢG	CGGC	AG	GTGG	CTG	CGG	GGG	ATC	AGA	CAG
8	N	G	M	v	N	R	R	M			,									
540	GTG	GTCG	TC	AGC	GGC	стG	rtc	GC'	CTG	3TG	AG	3GGG	'GC	CTCI	СТG	TGT	CAG	rcc	CTG'	GGC
28	v	s	s	s	G	L	F	G	L	v	E	G	С	L	L	С	Q	s	L	G
600	GGC	CCCT	TC	GCC	GAG	ATC	GGG/	rgt	AAA'	ACC	'GC	GTCI	ΑA	AAG	AGG	TGC	.GAC	AAA	TGC	TTC
48	G	·P	s	A	E	1	G	С	κ	T	С	v	к	к	R	С	D	к	С	F
660	AGG	GAAG	TG	GTC	GAG	٩GA	CAA	GAG	AGT	TGC	ATC	AAG	гgт	CTG	TGG	:CTG	ccc	CGG	AAG	CAG
68	R	ı K	W	٧	E	R	Q	E	s	С	1	к	C	L	W	L	P	R	к	Q
720	rggc	CCCT	BAC	3AAG	сто	ecc	TTG	AТС	ጥልጥ	AAG	ירכ	ሮሞሮ (200	, ומממי	ም እ <i>ር</i>	·mmc	maa	000		'maa
88				к	L	P	L	I	Y	к К	P	L	G	.г.г.ч К						
780	CAGA	AGCC				-			_		_	_			Y	F	W	Α	G	S.
108				R		A	P	E	r T	P										
840			_						_		L	P	R	F	Н	P	Đ	D	Α	R
		GTGA(CATC	CCG	CAGO	3ACC	'GAC	CTCI	AGC
128	-	s c		٤	•	V	R	G	R	A	W	T	Y	Ι	R	S	T	E	S	S
900	GGTC.	CTGG	CAC	ATC	CCC	CT	AGI	GA	\GA(CT	AG	TCC	TC	TAGO	rct	GGA!	CTC	GAG	CAG'	GAC
148	3 V	r e	3 1	\$	P	L	R	Ø	E	L	s	s	s	s	L	D	s	D	S	D
960	CAGG	cccc	.GG(GGA	CGT	CAG	rggo	\GGʻ	STC!	3GA	AA	CTGG	'CC	CAAA	CGA	AGG	gaa.	CCG	GGA	AGO
168	? R	A I	E 1		v	S	G	G	s	"E	К	M	P	K	D	G	к	R	D	R

ATGG	GGT	TC	,ccc	AAC	CCG	CGG	GCC	ACC	TCI	TTG	GGT	TGC	ÄGA	GC?	AGCC	TGO	3CCA	GTC	GT	1020	
M	G	F	Т	Q	P	Α	G	Н	L	F	G	L	Q	s	s	L	A	s	G	188	
GAGA	.CGG	GC7	ACAG	GCT	rctg	CTO	SACC	CGC	CAC	3GGG	GAG	GGA	CAG	GC'	CTG	CTC	GACC	CGC	CCA	1080	
E	Т	G	T	G	s	Α	D	P	P	G	G	G	т	G	s	A	D	P	P	208	
GGGG	GAG	ccc	CGCC	ccc	GGGC	TG	ACCC	GAA	AGG	GCC	CCG	GTAA	AAG	3AC	ACAC	CCT	GGAC	GAG	GCC,	1140	
G	G	P	R	P	G	L	Т	R	R	Α	P	V	κ	D	Т.	P	G	R	Α·	228	
ccc	SCT(зст	GAC	GCA(GCTC	CA	GCAG	GC	CCC	TCC	٩GC'	TGCC	CTG	3GC	TGA	GGT(GTC1	'GG'	rgc	1200	
P	A	A	D	Α	A	P	A	G	P	s	s	С	L	. G	*					243	
CTG	GAA	CAG	ACT	TCC	CTG"	rgg	AGGA	TT	CCT	GCC	AGA	.CCC1	rgc	CCG	GCT	CCT	ccc	rga	CCG	1260	ı
GTC	СТТ	GTG	CCC	TCA	CCA(зас	ACC	тG	ТТG	GCC.	ATG	ACT	CAA	CAA	ACC.	AGT	GTT	GGG.	AGC	1320	١
CGT	СТG	CCI	ccc	CAG	CTC	AGT	'GCC'	ттт	CTG	CAC	ccc	TTC'	гст	CCI	'GGG	GAG	CTG'	TCT	GCA	1380)
TCC	GCC	ACC	ccc	TCC	AAC	CAC	TGC	ССТ	CAG	ccc	CCG	ACC'	ГТА	TTT	'ATT	ACC	CTC	ccc	TCC	1440)
CAC	ACC	CCC	СААТ	CTA	CCT	GGI	GAT	зат	ттт	AAG	ттт	'GCG	CGI	GT	CTTG	GG1	rtgg	GCT	GGG	1500	o
GGG	ттт	cco	CACA	TGC	AGT	GTC	CAGA	GG	GCC	CGCC	CGG	TGG	GGC	TA	rcrc	CG1	rtgo	TAT	TTAT	1560	0
AAT	GGC	AA:	GACT	'AA <i>!</i>	\TGA	AAC	CTA	GGG	CAC	CGGC	CTC	CCGA	AGC	CTG	CGTC	TGG	3CCC	CTI	AGA	162	0
GGT	GAG	CA	rcag	AGO	CCAG	AGO	CAGT	GAG	GGG	GAG	ACT	CAC	CCF	\CC(CTCI	rcc	CTCI	'CCC	CTTC	168	0
AGC	тст	'GG(, GAGG	CAC	GCG	CAC	TGC	ccc	CC1	rccc	ATC	3GGC	TGC	GCC(CAGO	BAC	CGCG	GG'	rgaa	174	0
ACC	ነጥር:(። የርጥ	ርጥርብ	ቦጥጥን	ላ ር ምጥ	ጥር ^ና	rTTG	GTT	ጥጥገ	rgt <i>e</i>	\TG1	rTTG	ттт	'GT'	የተጥገ	rgao	CACA	\GT(CTCG	180	0
																			CTCC		0
																			CGCC		0
																			CAGG		0
																			GGGA		0
																			GCCT		0
																			GCTA		
GC	-1.6	G I I	TIT	GCI	CMG		GICI	1 0	100	. 1 3/				1							

AAACAATGAAGATTAAAA	2538
TGCTGCTGGCAAACAGTAAAGAAACTCACTTTCCCTGTGGCACGTTATGCTTCAGAATTA	2520
TGGAAGGCCTTCTCCAAGCTGGGAGCTCCTGGGCCCCCACCATTCACTTTTTGTCCT	2460
TCGGTGATCACACCCTCCCATCCTTCCTGCCTCCTGCCCCAAACCCCGGGTTCCTGGGTC	2400
AGTATGGGCAAATGCTTCTGGAAAACCCTTCCCTGAAGAGAGAACGTGTGTGT	2340
TCAGCCATGAATTCACTTCTCTCAGGAGGTTTGGCTTGGCATGAAAATACTTCATTCA	2280
TGAACTCACTTGCTGAAGAGCAGCGTTCAGGTGCATCCCCAGCCAG	2220

Fig. 4

CL3:

GGCT	CCI	'CA'	rct	GGA	ACA(CTC	CGG	GTC	ACC	ccc	GAC	AACG	GT	3GT	GGG.	AGG	GAG	AGC	GGC	60
стсс	TCC	CTC	CCT	GGT	GGG(acc1	rgt	CTG	GGT	GAA	.GCC	CCTC	TG	rtc	CCG	AGG	ATC	GTO	CCA	120
ACCC	CCF	AGC	CGG	G T G	CTC	CGAC	3CC	ATG	GCC	GAC	ACC	ATCT	TC	GGC	AGC	GGG	LAA	'GA'	CAG	180
								М	A	D	T	I	F	G	s	G	И	D	Q	12
TGGG	TT	rgc	ccc	AAT	GAC	CGG	CAG	CTT	GCC	СТТ	CGA	GCCP	AAG	СТС	CAG	ACG	GGC	CTG	TCC	240
W	v	С	P	N	D	R	Q	L	A	L	R	A	к	L	Q	Т	G	W	s	32
GTGC	AC	ACC	TAC	CAG.	ACG	GAG	AAG	CAG	AGG	AGG	AAG	CAGO	CAC	СТС	CAGC	CCG	GCC	€GA(GTG	300
v	н	T	Y	Q	T	E	ĸ	Q	R	R	к	Q	H	L	s	P	A	E	v	52
GAG	GCC2	ATC	стб	CAG	GTC	ATC	CAG	AGG	GCA	GA6	CGG	CTC	GAC	GTC	CTG	GAG	CAC	3CA	GAGA	360
E	A	I	L	Q	V	I	Q	R	Α	Ę	R	L	D	V	L	E	Q	Ç	R	72
ATC	GGG	CGG	CTC	3GT G	GAG	cgg	CT	GGAG	GAC	CAT	GAG	GCGG	AA	rgt	GAT	GGG	GAA	.CGG	CCT	G 420
I	G	Ŕ	L	v	E	R	L	E	т	М	R	R	N	V	/ M	G	N	1	G L	, 92
TCC	CAG	TG	CTC	GCT	CTGC	cggc	GA	GGT	GCT(GGG	стт	CCTG	GGG	CAG	CTC	GTĆ	GGT	'GT'I	CTG	C 480
s	Q	С	L	L	С	G	E	. v	' L	G	F	L	c	3 8	s s	S	3 V	r	F C	112
AAA	.GAC	TG	CAG	GAA	JAA.	\GT(CTG	CAC	CAA	ATG	ŢGG	GATO	CGA	GGC	CTC	ccc	TGG	GC2	\GAA	.G 540
к	D	С	R	к	к	v	c	: 1	r K		: G	I	E	E 1	A S	I	? (3	Q F	132
CGG	ccc	сст	GTG	GCT	GTG	raag	зAТ	'CTG	CAG	TGF	AGCF	\AAG/	4GA	GG'	rcte	GAA	GAG	GT(CGGG	G 600
R	P	L	W	L	C	К	. 1	: (c s	S E	Q Q	R	i	Ξ,	v W	<i>7</i> 1	K I	3	s	G 152
GCC	CTG	зтт	CTA	CAA	AGG	GCT	ccc	CAA	.GTP	TA?	стт	rgcc	CCT	GA/	AGAC	ccc	TG	GCC	GAGO	ст 660
				K							[L				кт	-		G	R'	
GA'	rga	CCC	CCF	CTT	CCG	ACC	TT:	rgcc	CAC	CGG	AAC	CGGC.	AGP	\GC	GAG!	AGCC	CCA	GAA	GCT	CT 720
			e H		R							P A			R E					s 192
GA	GAC	CAG	acco	3CAT	CTA							GAGT		'AG	GAA	GAA?	AGT	GCT	GAT	CC 780
						_						. 1								

ACGCTGCAGCCTGGATGAGTCCTTGAAAACACCATGCGAAGTGGAAGAAGCCGGAGACGA	840
AAGGCCGCGTGTTGTGTGATCTCATCTATATGAGCAGTGGTTTCCAGTGACAGTGACAGT	90 <u>0</u>
GACTCGGATCTTAGCTCCTCCAGCCTAGAGGACAGACTCCCATCCACTGGGGTCAGGGAC	960
CGGAAAGGCGACAAACCCTGGAAGGAGTCAGGTGGCAGCGTGGAGGCCCCCAGGATGGGG	1020
TTCACCCAACCCGCGGGCCACCTCTTTGGGTTGCAGAGCAGCCTGGCCAGTGGTGAGACG	1080
${\tt GGCACAGGCT_CTGCTGACCCGCCAGGGGGAGGGACAGGCTCTGCTGACCCGCCAGGGGGGA}$	1140
$\tt CCCCGCCCCGGGCTGACCCGAAGGGCCCCGGTAAAAGACACACCTGGACGAGCCCCCGCT$	1200
${\tt GCTGACGCAGCTCCAGCCCCCCCAGCTGCCTGGGCTGAGGTGTCTGGTGCCTGGAA}$	1260
${\tt CAGACTTCCCTGTGGAGGATTCCTGCCAGACCCTGCCCGGCTCCTCCCTGACCGGTCCTT}$	1320
GTGCCCTCACCAGACACCCTGTTGGCCATGACTCAACAAACCAGTGTTGGGAGCCGTCTG	1380
$\tt CCTCCCCAGCTCAGTGCCTTTCTGCACCCCTTCTCTCTGGGGAGCTGTCTGCATCCGCC$	1440
ACCCCTCCAACCACTGCCCTCAGCCCCGACCTTATTTATT	1500
$\tt CCCAATCTACCTGGTGATGATTTTAAGTTTGCGCGTGTCTTGGGTTGGGCTGGGGGGTTT$	156
CCCACATGCAGTGTCAGAGGGCCGCCCGGTGGGGCTATCTCCGTTGCTATATTAATGGC	1620
AAGACTAAATGAAACCTAGGGCACGGCCTCCGAAGCTGCGTGTGGCCCCTTAGAGGTGAG	1680
CATCAGAGCCAGAGCAGTGAGGGGGAGACTCACCCACCCTCTCCCTCTCCCTTCAGCTCT	1740
GGGAGGCAGGCGCAGTGCCCCCTCCCATGGGCTGGCCCAGGACCGCGGGTGAAACCTGG	1800
${\tt GTCTGTTTAGTTTCTTTGGTTTTTGTATGTTTGTTTTGACACAGTCTCGCTTTGT}$	1860
${\tt TGCCCAGGCTGGGGTGCAGTGGCACGATCGCGGCTCACTGCAACCTCCACCTCCCGGGCT}$	1920
${\tt CAAGCGATTCTCACCTCAGCCTCCTGAGTAGGTGGGATTACAGATGCCCGCCACCACA}$	1980
CCCAGTTAATTTTTGTATTTTTAGAAGAGATGGGGTTTCTCCATGTTGGCCAGGCTGGTC	2040

TTGAACTCCTGGTCTCAAGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAG	2100
GTGTGAGCCACCCCAATCCTATTAGGTTTCTTTGAATCCCCTCATGGCCTGCCT	2160
TTTTTGCTCAGCCTGTCTTCAGCTTGAGGAGCTGGGAAGCTCTGGTGGATGCTATGAACT	2220
CACTTGCTGAAGAGCAGCGTTCAGGTGCATCCCCAGCCAG	2280
ATGAATTCACTTCTCTCAGGAGGTTTGGCTTGGCATGAAAATACTTCATTCA	2340
GGCAAATGCTTCTGGAAAACCCTTCCCTGAAGAGAGAGAACGTGTGTGT	2400
${\tt ATCACACCCTCCCATCCTTCCTGCCTCCTGCCCCAAACCCCGGGTTCCTGGGTCTGGAAG}$	2460
${\tt GGCCTTCTCCAAGCTGGGAGCTCCTGGGCCCCCACCATTCACTTTTTGTCCTTGCTGC}$	2520
${\tt TGGCAAACAGTAAAGAAACTCACTTTCCCTGTGGCACGTTATGCTTCAGAATTAAAACAA}$	2580
TGAAGATTAAAA	2592

Fig. 5

CL4:

ACGGTGGTGGGAGGGAGAGCGGC 60	GGTG	AAC	GAC	ccc	ACC	GTC	CGG	CCT	ACA	'GGA	ATC:	TCF	rcc'	GGC'
CTCTGTTCCCGAGGATCGTCCCA 120	CTGI	CCT	GCC	3AA	GT(CTG	TGI	GCC	'GGG	GGI	ccc	CŢC	CTC	CTC
TCTTCGGCAGCGGGAATGATCAG 180	TTCG	ATC	ACC	GAC	GCC	ATG	GCC	CGA	CTC	GTG	CCG	AGO	CCC.	ACC
CCAAGCACTGACTGCACAGCAGT 240	AAGO	GCC	CGA	CTT	GCC	стт	CAG	CGG	'GAC	CAAI	CCC	TG	GTT	TGG
GGTGGGCAGAGGCTGCAGACGGGC 300	'GGGC	GGT	ACA	AGC	TAA	TCT	TG	ccc	AGT	ACA(CCA	GAG	CAG	GAA
AGGAAGCAGCACCTCAGCCCGGCG 360	AAG	AGG	AGG	CAG.	AAG	GAG	ACC	CAG	CTAC	CAC	3CA	GT	TCC	TGG
AGCGGCTCGACGTCCTGGAGCAG 420	CGGC	SAG	CAC	\GGG	:AGA	ATCC	STC.	CAGG	CTG	ATC	GCC	AG	TGG	GAGG
TGAGGCGGAATGTGATGGGGAAC 480														
		M												
GCTTCCTGGGCAGCTCGTCGGTG 540	TTCC	GGC'	CTG	STGC	SAGO	GGGG	rgc	CTC	CTG	TGT	CAG	rcc	TGI	GGCC
		G	L	v	E	G	С	L	L	С	Q	s	L	G
GTGGGATCGAGGCCTCCCCTGGC 600	GGGA	rgt	\AA	ACC#	rgcz	GTC:	ада	AAG	AGG.	TGC	.GAC	٩.A.	GCF	TTCI
		С	к	Т	С	٧	к	к	R	С	D	ĸ	С	F
AGCAAAGAGAGGTCTGGAAGAGG 660	СААР	GAG	AGT	rgc <i>i</i>	ATC'	AAG	TGT	CTG	TGG	стс	CCC	CGG	\AG(CAGA
E Q R E V W K R 68	Q	£	s	С	I	K	С	L	W	L	P	R	ĸ	Q
TCTTGCCCCTGAAGACCCCTGGC 720	TTGC	ATC	TAT	AAG'	CCC.	CTC	GGG	:AAA	TAC	TTC	TGO	GCC	GG(TCG
I L P L K T P G 88	L	I	Y	К	P	L	G	к	Y	F	W	Α	G	s
SAACCGGCAGAGCGAGAGCCCAGA 780	CCGC	GAA	ACG	CCC	TTG	CCT	:CG?	TTC	CAC	ccc	'GA	GAT	GCT	CGA
E P A E R E P R 108			т	P	L	P	R	F	Н	P	D	D	А	R
GGAAGAGTCGTAGGAAGAAAGTGC 840	\AGA(.GGP	CGP	GCC	TGG	CACG	TAC	CATO	CCGC	CAGO	SAC	GAG	тст	AGC
			R		W	Т	Y	I	R	s	т	E	s	s
ACCATGCGAAGTGGAAGAAGCCGG 900	CATG	CACC	AAC	'GAA	CTT	AGTO	ΥG	rGG <i>P</i>	GCC1	GCA	GCT.	AC	TCC	TGA
rgagcagtggtttccagtgacagt ^ 960														
GACAGACTCCCATCCACTGGGGTC 1020														
GGTGGCAGCGTGGAGGCCCCCAGG '1080														
TTGCAGAGCAGCCTGGCCAGTGGT 1140						,								

GAGACGGGCACAGGCTCTGCTGACCCGCCAGGGGGGGGACAGGCTCTGCTGACCCGCCA	1200
${\tt GGGGGACCCCGGGGCTGACCCGAAGGGCCCCGGTAAAAGACACCTGGACGAGCC}$	1260
$\tt CCCGCTGCTGACGCAGCTCCAGCAGGCCCCTCCAGCTGCCTGGGCTGAGGTGTCTGGTGC$	1320
$\tt CTGGAACAGACTTCCCTGTGGAGGATTCCTGCCAGACCCTGCCCGGCTCCTCCCTGACCG$	1380
GTCCTTGTGCCCTCACCAGACACCCTGTTGGCCATGACTCAACAAACCAGTGTTGGGAGC	1440
$\tt CGTCTGCCTCCCCAGCTCAGTGCCTTTCTGCACCCCTTCTCTCTGGGGAGCTGTCTGCA$	1500
TCCGCCACCCCTCCAACCACTGCCCTCAGCCCCGACCTTATTTAT	1560
CACACCCCAATCTACCTGGTGATGATTTTAAGTTTGCGCGTGTCTTGGGTTGGGCTGGG	1620
GGGTTTCCCACATGCAGTGTCAGAGGGGCCGCCCGGTGGGGCTATCTCCGTTGCTATATT	1680
AATGGCAAGACTAAATGAAACCTAGGGCACGGCCTCCGAAGCTGCGTGTGGCCCCTTAGA	1740
GGTGAGCATCAGAGCCAGAGCAGTGAGGGGGAGACTCACCCACC	1800
AGCTCTGGGAGGCAGGCGCAGTGCCCCCCCCCCATGGGCTGGCCCAGGACCGCGGGTGAA	1860
ACCTGGGTCTGTTTAGTTTCTTTGGTTTTTGTATGTTTGTT	1920
CTTTGTTGCCCAGGCTGGGGTGCAGTGGCACGATCGCGGCTCACTGCAACCŢCCACCTCC	1980
CGGGCTCAAGCGATTCTCTCACCTCAGCCTCCTGAGTAGGTGGGATTACAGATGCCCGCC	2040
ACCACACCCAGTTAATTTTTGTATTTTTAGAAGAGATGGGGTTTCTCCATGTTGGCCAGG	2100
CTGGTCTTGAACTCCTGGTCTCAAGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGA	2160
TTACAGGTGTGAGCCACCGCACCCAATCCTATTAGGTTTCTTTGAATCCCCTCATGGCCT	2220
GCCTGGTTTTTGCTCAGCCTGTCTTCAGCTTGAGGAGCTGGGAAGCTCTGGTGGATGCTA	2280
TGAACTCACTTGCTGAAGAGCAGCGTTCAGGTGCATCCCCAGCCAG	2340
TCAGCCATGAATTCACTTCTCTCAGGAGGTTTGGCTTGGCATGAAAATACTTCATTCA	2400
AGTATGGGCAAATGCTTCTGGAAAACCCTTCCCTGAAGAGAGAG	2460
TCGGTGATCACACCCTCCCATCCTTCCTGCCTCCTGCCCCAAACCCCGGGTTCCTGGGTC	2520
TGGAAGGGCCTTCTCTCCAAGCTGGGAGCTCCTGGGCCCCCACCATTCACTTTTTGTCCT	2580
TGCTGCTGGCAAACAGTAAAGAAACTCACTTTCCCTGTGGCACGTTATGCTTCAGAATTA	2640
AAACAATGAAGATTAAAA	2658

60 61 75 76 90	0		CTGGA ACACCTCGGGTCACC CCCGACAACGGTGGT GGGAGGGAGGGGC CTCCTCCTCCTGGT GGGGCCTGTCTGGGT 90	CTGGA ACACCTCGGGTCACC CCCGACAACGGTGGT GGGAGGGGAG	1.03 GACTICATICIGEA ACACCICGEGICACC CCCGACAACGGIGGI GGGAGAGGGGGC CICCICCICCIGGI GGGGCTGICIGGGI 90	6 LC4 GECTCCTCATCTGGA ACACCTCGGGTCACC CCCGACAACGGTGGT GGGAGGGAGGGACGGC CTCCTCCTCCTGGT GGGGCTGTCTGGGT 90	150 151 165 166 180	TCCCA ACCCCAAGCCAGGTG CTCCGAGCCATGGCC GACACCATCTTCGGC AGCGGGAATGATCAG 65	NI. GAAGÓCOCTCTGITC CCGAGGATGGTCCCA ACCCCCAGCGGGGTG CTCCGAGCCATGGCC GACACCATCTTGGGC AGCGGGAATGATCAG 180	3 LC1 GAAGCCCTCTGTTC CCGAGGATCGTCCCA ACCCCCAGCCGGGTG CTCCGAGCCATGGCC GACACCATCTTCGGC AGCGGGAATGATCAG 180	LC2 GAAGCCCCTCTGTTC CCGAGGATCGTCCCA ACCCCCAGCCGGGTG CTCCGAGCCATGGCC GACACCATCTTCGGC AGCGGGAATGATCAG 180		6 LC4 GAAGCCCCTCTGTTC CCGAGGATCGTCCCA ACCCCCAGCCGGGTG CTCCGAGCCATGGCC GACACCATCTCGGC AGCGGGAATGATCAG 180
30 31 45 46		CCCGACAACGGTGGT GGGAGGGAAG	CCCGACAACGGTGGT GGGAGGGAG	CCCGACAACGGTGGT GGGAGGGAG	CCCGACAACGGTGGT GGGAGGGAG	CCCGACAACGGTGGT GGGAGGGAG	120 121 135 136	ACCCCAGCCGGGIG CICCGAGCC	ACCCCAGCCGGGTG CTCCGAGCC	ACCCCCAGCCGGGTG CTCCGAGCC	ACCCCAGCCGGGTG CTCCGAGCC	ACCCCCAGCCGGGTG CTCCGAGCC	Accecageceggie creeaged
15 16 30		A ACACCTCGGGTCACC	A ACACCTCGGGTCACC	A ACACCTCGGGTCACC	A ACACCICGGGTCACC	A ACACCTCGGGTCACC	106	TCCCA	rc cceaggarcercca	rc ccgaggarcgrcca	IC CCGAGGAȚCGTCCCA	IC CCGAGGAICGICCCA	TC CCGAGGATCGTCCCA
•	1	GGCTCCTCAT	GGCTCCTCAI	GGCTCCTCAI	GGCTCCTCATCTGG	GGCTCCTCATCTGG	91 105		1 GAAGÓCCCTCTGT1	1 GAAGCCCCTCTGT1	2 GAAGCCCCTCTGT	3 GAAGCCCCTCTGTTC	4 GAAGCCCCTCTGT
	NOC 1	2 NL1	3 LC1	4 1.C2	5.173	6 LC4		1 NOC2	2 NE.1	3 10	4	5 LC3	o LO

1 2 7 t

	108	223	270	223 .	270		179	294	294	360	294	360		269	384	
	† 		GAACAGGACCAACAC AGTCCCTGGTCTTAA		GACCGGCAGCTTGCC CTTCGAGCCAAGCAC TGACTGCACAGCAGT GAACAGGACCAACAC AGTCCCTGGTCTTAA	360	-TGCAGACGGGC TGGTCCGTGCACACACACAGAGAAG CAGAGGAGGAAGCAG CACCTCAGCCGGCG	-TGCAGACGGGC TGGICCGTGCACACC TACCAGACGGAGAAG CAGAGGAGGAAGCAG CACCICAGCCGGCG	TGCAGACGGGC TGGTCCGTGCACACC TACCAGACGGAGAAG CAGAGGAAGGAAGCAG CACCTCAGCCGGGCG	AGGCTGCAGACGGGC TGGTCGGTGCACACC TACCAGACGGAGAAG CAGAGGAAGCAG CACCTCAGCCGGCG	CAGAGGAAGCAG CACCTCAGCCCGGCG	ಕಿಂಕಿಕಿಂದಿಕ	450	CAGAGAATCGGGCGG CTGGTGGAGCGGCTG	CTGGTGGAGCGGCTG	
255 256			AGTCCCI		AGTCCCT	5 346	CACCTCA	CACCICA	CACCTCA	CACCTCA	CACCTCA	CACCTCA	5 436	CTGGTGG	CTGGTGG	
			ACCAACAC	1	ACCAACAC	345	GGAAGCAG	3GAAGCAG	3GAAGCAG	3GAAGCAG	BGAAGCAG	3GAAGCAG	435	TCGGGCGG	ומפפפמפ	,
240 241			GAACAGG	1 1 1 1	GAACAGG!	331	CAGAGGA	CAGAGGA(CAGAGGA(CAGAGGA(CAGAGGA	CAGAGGAC	421	CAGAGAA'	CAGAGAAI	
	-		CITCGAGCCAAGCAC TGACTGCACAGCAGT	1	ACAGCAGT	330	CGGAGAAG	CGGAGAAG	CGGAGAAG	CGGAGAAG	TGCAGACGGGC TGGTCCGTGCACACC TACCAGACGGAGAAG	AGGCTGCAGACGGGC TGGTCCGTGCACACC TACCAGACGGAGAAG CAGAGGAAGGAAGCAG CACCTCAGCCGGGCG	420	AGGGCAGAGCGGCTC GACGTCCTGGAGCAG	CTGCAGGTCATCCAG AGGGCAGAGCGGCTC GACGTCCTGGAGCAG CAGAGAATCGGGCGG	
225 226			c TGACTG	1	TGACTGC	315 316	TACCAGE	TACCAGA	TACCAGA	TACCAGA	TACCAGA	: TACCAGA	405 406	GACGIC	: GACGICC	
	CCAAT GACCGGCAGCTTGCC CTTCGAGCCAAGC	CII CGAGCCAAGC	GCCAAGCA	CTTCGAGCCAAGC	SCCAAGCAC	33	GTGCACAC	STGCACACC	STGCACACC	STGCACACC	STGCACACC	3TGCACACC	40	GAGCGGCTC	BAGCGGCTC	,
210 211	CTTCG	c circes	c crrcsA	: CTTCGA	: CTTCGA	300 301	TGGTCC	: TGGTCC	: TGGTCC	: TGGTCG	TGGTCC	: TGGTCC	0 391		AGGGCA	
	CAGCTTGC	GACCGGCAGCTTGCC	GACCGGCAGCTTGCC	GACCGGCAGCTTGCC	AGCTTGCC	30	CAGACGGG	AGACGGG	agacggg	:AGACGGGC	AGACGGG	:AGACGGGC	390	CTGCAGGTCATCCAG	TCATCCAG	
	T GACCGG				GACCGGC	5 286	TG(TGC	TGC	AGGCTGC	TGC	AGGCTGC	376	CTGCAGO		
		3 LCI TGGGTTTGCCCCAAT	4 LC2 TGGGTTTGCCCCAAT	TGGGTTTGCCCCAAT	6 LC4 TGGGTTTGCCCCAAT	285		 	1,	AGCACAGGTGGGCAG		AGCACAGGTGGGCAG	375	1 NOC2 GAGGTGGAGGCCATC	2 NL1 GAGGTGGAGGCCATC	
181	1 NOC2 TGGGTTTGCC	TGGGTTT	TGGGTTT		TGGGTTT	271	1	1			1	AGCACAG	361	GAGGTGG	GAGGTGG	
-	1 NOC2	3 LC1	4 LC2	5 LC3	6 LC4		1 NOC2	2 NL1	3 LC1	4 LC2	5 LC3	6 LC4		1 NOC2	2 NL1	

384	450	384	450		359	474	474	540	474	540		449	495	564	630	564	630
CTGGTGGAGCGGCTG	CTGGTGGAGCGGCTG	стветвелеств	CTGGTGGAGCGGCTG	526 540	GGCAGCTCGTCGGTG	GGCAGCTCGTCGGTG	GGCAGCTCGTCGGTG	eccaectcetceste	3GCAGCTCGTCGGTG	3GCAGCTCGTCGGTG	616 630	TGGCTGTGTAAGATC		TGGCTGTGTAAGATC	TGGCTGTGTAAGATC	TGGCTGTGTAGATC	TGGCTGTGTAAGATC
3 LCI GAGGTGGAGGCCATC CTGCAGGTCATCCAG AGGGCAGAGCGGCTC GACGTCCTGGAGCAG CAGAGAATCGGGCGG CTGGTGGAGCGGCTG	CAGAGAATCGGGCGG (CAGAGAATCGGGCGG	6 LC4 GAGGTGGAGGCCATC CTGCAGGTCATCCAG AGGGCAGAGCGGCTC GACGTCCTGGAGCAG CAGAGAATCGGGCGG CTGGTGGAGCGGCTG	511 525	453 456 AAAAA 1110 AAAAAAAAA AAAAAAAAA TAAAAAAA AAAAAA AAAAAA	GROSSISTICATION STATES AND TO THE GOOGLEST COCAGIGI. CTGCTCTGCGGGAG GIGCTGGGCTTCCTG	erecrescriccis sscascrosrossis	4 LC2 GAGACCATGAGGCGG AATGTGATGGGGAAC GGCCTGTCCCAGTGT CTGCTCGGGGGAG GTGCTGGGCTTCCTG GGCAGCTCGTCGTG	CTGCTCTGCGGGGAG GTGCTGGGCTTCCTG GGCAGCTCGTCGTG	CTGCTCTGCGGGGAG GTGCTGGGCTTCCTG GGCAGCTCGTCGTG	0 601 615	ACTGC AGGAAGAAAGTCTGC ACCAAATGTGGGATC GAGGCCTCCCCTGGC CAGAAGCGGCCCCTG TGGCTGTGTAAGATC		TICTGCAAAGACTGC AGGAAGAAAGICTGC ACCAAATGTGGGGATC GAGGCCTCCCCTGGC CAGAAGCGGCCCCTG TGGCTGTGAAGATC		CAGAAGCGGCCCCTG	6 LC4 TTCTGCAAAGACTGC AGGAAGAAAGTCTGC ACCAAATGTGGGATC GAGGCCTCCCCTGGC CAGAAGCGGCCCCTG TGGCTGTGTAAGATC
GACGTCCTGGAGCAG	1.C2 GAGGIGGAGGCCAIC CIGCAGGICAICCAG AGGGCAGAGGGGCIC GACGIÇCIGGAGCAG CAGAGAAICGGGGG	1.03 GAGGTGGAGGCCATC CTGCAGGTCATCCAG AGGGCAGAGGGGCTC GACGTCCTGGAGCAG	GACGTCCTGGAGCAG	r 496 510	CIGCICIGCGGGGAG	CTGCTCTGCGGGGAG	GAGACCATGAGGCGG AATGTGATGGGGAAC GGCCTGTCCCAGTGT CTGCTCTGCGGGAG	CTGCTCTGCGGGGAG	CTGCTCTGCGGGGAG	CTGCTCTGCGGGGAG	5 586 600	GAGGCCTCCCCTGGC		GAGGCCTCCCCTGGC	AGGAAGAAAGTCTGC ACCAAATGTGGGATC GAGGCCTCCCCTGGC CAGAAGCGGCCCCTG	TICTGCAAAGACTGC AGGAAGAAAGTCTGC ACCAAATGTGGGATC GAGGCCTCCCCTGGC CAGAAGCGGCCCCTG	GAGGCCTCCCCTGGC
AGGGCAGAGCGGCTC	AGGCAGAGCGGCTC	AGGGCAGAGCGGCTC	AGGCAGAGCGGCTC	407	GGCTGTCCCAGTGT	GGCCTGTCCCAGTGT	GGCCTGTCCCAGTGT	GGCCTGTCCCAGTGT	GGCCTGTCCCAGTGT	GECCTETCCCAGTGT	571 58	ACCAAATGTGGGATC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ACCAAATGTGGGATC	ACCAAATGTGGGATC	ACCAAATGTGGGATC	ACCAAATGTGGGATC
CTGCAGGTCATCCAG	CTGCAGGTCATCCAG	CTGCAGGTCATCCAG	CTGCAGGTCATCCAG			AATGTGATGGGGAAC	AATGTGATGGGGAAC	AATGTGATGGGGAAC	AATGTGATGGGGAAC	AATGTGATGGGGAAC	556 570	AGGAAGAAAGTCTGC	AGGAAG	AGGAAGAAAGTCTGC	AGGAAGAAAGTCTGC	AGGAAGAAAGTCTGC	AGGAAGAAAGTCTGC
GAGGTGGAGGCCATC	GAGGTGGAGGCCATC	GAGGTGGAGGCCATC	GAGGTGGAGGCCATC		451 450 00000000000000000000000000000000000	I NOCZ GAGACCAIGAGGCGG		GAGACCATGAGGCGG	LC3 GAGACCATGAGGGG AATGTGATGGGGAAC GGCCTGTCCCAGTGT	LC4 GAGACCATGAGGCGG AATGTGATGGGGAAC GGCCTGTCCCAGTGT	541 555	NOC2 ITCTGCAAAGACTGC	TTCTGCAAAGACTGC AGGAAG		TTCTGCAAAGACTGC	TTCTGCAAAGACTGC	TTCTGCAAAGACTGC
3 LC1	4 LC2	5 103	6 LC4			I NOCE	3 LC1	4 LC2	5 LC3	6 LC4		1 NOC2	2 NL1	3 LC1	4 LC2	5 LC3	6 LC4

	539	567	654	720	654	720			629	657	744	810	744	810		643	671	758
0							(810							006			,
6 720	PAGACCCCTGGC	TACAAAGGGCTCCCC AAGTATATCTTGCCC CTGAAGACCCCTGGC	TACAAAGGGCTCCCC AAGTATATCTTGCCC CTGAAGACCCCTGGC	AAGACCCCTGGC	CTGAAGACCCCTGGC	AAGACCCCTGGC			CGCATCTACACGTGG	CGCATCTACACGTGG	CCCACGGAACCGGCA GAGCGAGAGCCCAGA AGCTCTGAGACCAGC CGCATCTACÁCGTGG	CCCACGGAACCGGCA GAGCGAGAGCCCAGA AGCTCTGAGACCAGC CGCATCTACACGTGG	CGCATCTACACGTGG	CGCATCTACACGTGG	w	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
705 706	CTG	CTG	CTG	CTG	CTG	CTG		795 796	S S	8	S	g	80	Ö	885 88	-	İ	į
70	ATCTTGCCC	ATCTTGCCC	ATCTTGCCC	ATCTTGCCC	ATCTIGCCC	ATCTTGCCC		7 9	GAGACCAG	GAGACCAGC	GAGACCAGO	GAGACCAGO	GAGACCAGO	GAGACCAGO	8	1	1	
690 691	AAGTAT	AAGTAT!	AAGTAT?	AAGTAT	AAGTAT	aagtat.		780 781	AGCTCT	AGCTCT	AGCTCT	AGCTCT	AGCTCT	AGCTCT	871	1		
069	GGGCTCCCC	GGGCTCCCC 7	GGGCTCCCC 7	GGGCTCCCC 7	GGGCTCCCC	GGGCTCCCC		780	челессслел	GAGCCCAGA	AGAGCCCAGA	AGAGCCCAGA	AGAGCCCAGA	AGAGCCCAGA	870	 	1	
676	TACAAA	TACAAA	TACAAA	TACAAA	TACAAA	TACAAA		3 766	GAGCG	GAGCG	GAGCG?	GAGCGA	GAGCG#	GAGCGF	5 856		1	
675	GGGCCTGGTTC	TCGGGGGCCTGGTTC	SGGCCTGGTTC	3GGCCTGGTTC	3GGCCTGGTTC	366CCTGGTTC		765	CGGAACCGGCA	COCACGGAACCGGCA GAGCGAGAGCCCAGA AGCTCTGAGACCAGC	CGGAACCGGCA	CGGAACCGGCA	CCCACGGAACCGGCA GAGCGAGAGCCCAGA AGCTCTGAGACCAGC	CCCACGGAACCGGCA GAGCGAGAGCCCAGA AGCTCTGAGACCAGC	855		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1
661	TCGG	TCGGC	TCGG	TCGG	TCGG	TCGG		750 751	CCC	ದ್ದರ	ದರದ	CCCA	CCCA		841	į	1	
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GTTTC		PAGCC	AAGCG	PAGCC	SAAGC SAAGÖ			TGGG	TGGG	TGGGC
GTATGTTTGTTTGTT GTATGTTTGTTTGTT GTATGTTTGTT	81	GGCTC	GGCTC	GGCTC	CGGGCTCAAGCGATT		071	AGAG	AGAGP	AGAG?
LC1 GTATGTTTGTT TTTGACACAGTCTCG CTTTGTTGCCCAGGC TGGGGTGCAGTGGCA CGATCGCGGCTCACT GCAACCTCCACTCC LC2 GTATGTTTGTTTGTT TTTGACACAGTCTCG CTTTGTTGCCCAGGC TGGGGTGCAGTGGCA CGATCGCGGCTCACT GCAACCTCCACCTCC LC3 GTATGTTTGTTTGTT TTTGACACAGTCTCG CTTTGTTGCCCAGGC TGGGGTGCAGTGGCA CGATCGCGGGCTCACT GCAACCTCCACCTCC LC3 GTATGTTTGTTTGTT TTTGACACAGTCTCG CTTTGTTGCCCAGGC TGGGGTGCAGTGGCA CGATCGCGGGCTCACT GCAACCTCCACCTCC	1981	1 NOC2 CGGGCTCAAGCGATT	NEI CG	LC2 CG	3 G		7	1 NOC2 AAGAGATGGGGGTTTC TCCATGTTGGCCAGG CTGGTCTTGAACICC ISCLANDANG CGCCGGCCTCGGCCT CCCAAAGTGCTGGGA	2 NL1 AAGAGATGGGGTTTC TCCATGTTGGCCAGG CTGGTCTTGAACTCC TGGTCTCAAAGTGTCTCAAAGTGCTGGGAA	3 LC1 AAGAGATGGGGTTTC TCCATGTTGGCCAGG CTGGTCTTGAACTCC TGGTCTCAAGTGATC CGCCCGCCTCGGCCT CCCAAAGTGCTGGGA 4 1.02 AAGAGATGGGGTTTC TCCATGTTGGCCAGG CTGGTCTTGAACTCC TGGTCTCAAGTGATC CGCCCGCCTCGGCCT CCCAAAGTGGAA
LC1 C LC2 C LC3 C LC4 C LC3 C LC4 C		NC	2 NL1 3 LC1	4 7	5 LC3 6 LC4			z H	2	3 1

94	. 09		1919	77	2064	2130	2184	2250		2009	2067	2154	2220	2274	2340
2094	2160	ō		1977					0 4						
CCCAAAGTGCTGGGA	CCCAAAGTGCTGGGA	2235 2236 2250	AGCCTGTCTTCAGCT	AGCCTGTCTTCAGCT	AGCCTGTCTTCAGCT	AGCCTGTCTTCAGCT	AGCCTGTCTTCAGCT	AGCCTGTCTTCAGCT	5 2326 2340	, GGGCACGTGGCTCCC	. GGGCACGTGGCTCCC	. eeecacereecrcc	, esscacstscrcc	, eeecacereecrec	, gescacerescred
ceccceccTcGGCCT	CGCCCGCCTCGGCCT	2220 2221 2235	GCCTGGTTTTTGCTC	GCCTGGTTTTTGCTC	GCCTGGTTTTTGCTC	GCCTGGTTTTTGCTC	GCCTGGTTTTTGCTC	GCCTGGTTTTTGCTC	2310 2311 2325	GIGCAICCCCAGCCA	GTGCATCCCCAGCCA	GTGCATCCCCAGCCA	GTGCATCCCCAGCCA	GTGCATCCCCAGCCP	GTGCATCCCCAGCCP
rggtctcaagtgatc	regrerearca	2205 2206 2220	ATCCCCTCATGGCCT	ATCCCCTCATGGCCT	ATCCCCTCATGGCCT	ATCCCCTCATGGCCT	ATCCCCTCATGGCCT	ATCCCCTCATGGCCT	2295 2296 2310	AAGAGCAGCGTTCAG	AAGAGCAGCGTTCAG	AAGAGCAGCGTTCAG	AAGAGCAGCGTTCAG	AAGAGCAGCGTTCAG	AAGAGCAGCGTTCAG
STGGTCTTGAACTCC	CTGGTCTTGAACTCC '	2191 2205	ATTAGGTTTCTTTGA	ATTAGGTTTCTTTGA	ATTAGGTTTCTTTGA	ATTAGGTTTCTTTGA	ATTAGGTTTCTTTGA	ATTAGGTTTCTTTGA	2280 2281 2295	TGAACTCACTTGCTG	TGAACTCACTTGCTG	TGAACTCACTTGCTG	TGAACTCACTTGCTG	TGAACTCACTTGCTG	TGAACTCACTTGCTG
TCCATGTTGGCCAGG	TCCATGTTGGCCAGG	2175 2176 2190 2191	ACCECACCCAATCCT	THACAGGIGIGAGCC ACCGCACCCAAICCI AITAGGITICITIGA AICCCCICAIGGCCI GCCIGGITITIGCIC AGCCIGICITICAGCI	TTACAGGIGIGAGCC ACCGCACCCAATCCT ATTAGGITTCTTIGA ATCCCCTCAIGGCCT GCCTGGTITTTGCTC AGCCTGTCTTCAGCT	TTACAGGTGTGAGCC ACCGCACCCAATCCT ATTAGGTTTCTTTGA ATCCCCTCATGGCCT GCCTGGTTTTTGCTC AGCCTGTCTTCAGCT	ACCGCACCCAATCCT	TIACAGGIGIGAGCC ACCGCACCCAAICCI ATIAGGITICITIGA AICCCCICAIGGCCI GCCIGGITITIGCIC AGCCTGICITCAGCI	2266	CTCTGGTGGATGCTA	CTCTGGTGGATGCTA	TGAGGAGCTGGGAAG CTCTGGTGGATGCTA TGAACTCACTTGCTG AAGAGCAGCGTTCAG GTGCATCCCCAGCCA GGGCACGTGGCTCCC	TGAGGAGCTGGGAAG CTCTGGTGGATGCTA TGAACTCACTTGCTG AAGAGCAGGGTTCAG GTGCATCCCCAGCCA GGGCACGTGGCTCCC	TOAGGAGCTGGGAAG CICTGGTGGAAGCTA TGAACTCACTTGCTG AAGAGCAGCGITCAG GTGCAICCCCAGCCA GGGCAAGGTGGCTCCC	TEAGGAGCTGGGAAG CICTGGTGGATGCTA TGAACTCACTTGCTG AAGAGCAGCGTTCAG GTGCATCCCCAGCCA GGGCACGTGGCTCCC
5 LC3 AAGAGATGGGGTTTC TCCATGTTGGCCAGG CTGGTCTTGAACTCC TGGTCTCAAGTGATC CGCCCGCCTCGGCCT CCCAAAGTGCTGGGA	AAGAGAIGGGGITIC TCCAIGITGGCCAGG CIGGICITGAACICC IGGICICAAGIGAIC CGCCCGCCICGGCCI CCCAAAGIGCIGGGA	2161 2175	AGGTGTG	TTACAGGTGTGAGCC	TTACAGGTGTGAGGC	TTACAGGTGTGAGGCC	1.03 TTACAGGTGTGAGCC ACGCACCCAATCCT ATTAGGTTTCTTTGA ATCCCCTCATGGCCT GCCTGGTTTTTGCTC AGCCTGTCTTCAGCT	TTACAGGTGTGAGCC	2251 2265	GAGCTGG	NI.1 TRAGGAGCTGGGAAG CTCTGGTGGATGCTA TGAACTCACTTGCTG AAGAGCAGCGTTCAG GTGCATCCCCAGCCA GGGCACGTGGCTCCC	TGAGGAGCTGGGAAG	TGAGGAGCTGGGAAG		
5 1.03	7 Y		NOC2	NET	1701		5.103	LC4		NOC2	2 NL.1	101	4 LC2	2 IC3	6 LC4

2 NL1 IGGAAGGGCCTICIC ICCAAGCIGGGAGCI CCIGGGCCCCCACCA IICACTITITGICCI IGCIGCIGGCAAACA GTAAAGAAACICACI 2337

		2341 2:	2355 2356		2370 2371	2385	2386	2400	2401	2415 2416	•	2430	
-	NOC2	1 NOC2 TCAGCCATGAATTCA CTTCTCTTCAGGAGG TTTGGCTTGGC	ca ctro	CTCTTCAGGAGK	s rrreecrree	CATGA	. AAATACTTCATT	CAG 1	<i></i> В В В В В В В В В В В В В В В В В В В	ATGC	TTCTGGAAAACC	CTT	2099
2	2 NL1	TCAGCCATGAATTCA CTTCTCTTCAGGAGG TTTGGCTTGGC	CA CITC	TCTTCAGGAGG	Frrescries	CATGA	AAATACTTCATT	CAG 7	AGTATGGGCAAJ	ATGC 1	TTCTGGAAAACCCTT		2157
3.1	3 LC1	TCAGCCATGAATTCA CTTCTCTTCAGGAGG TTTGGCTTGGC	CA CITC	TCTTCAGGAGG	; TTTGGCTTGG	CATGA	AAATACTTCATT	CAG P	GTATGGGCAAA	ATGC 1	FTCTGGAAAACC		2244
4	4 LC2	TCAGCCATGAATTCA CTTCTCTTCAGGAGG TTTGGCTTGGC	CA CITC	TCTTCAGGAGG	TTTGGCTTGGC	CATGA	AAATACTTCATT	CAG A	GTATGGGCAAA	NTGC 1	TCTGGAAAACC		2310
5.	5 LC3	TCAGCCATGAATTCA	A CTTC	CTTCTCTTCAGGAGG	TTTGGCTTGGC	ATGA .	TTTGGCTTGGCATGA AAATACTTCATTCAG AGTATGGGCAAATGC TTCTGGAAAACCCTT	AG A	GTATGGGCAAA	TGC T	TCTGGAAAACCC		2364
6 1	Ω, 4	6 LC4 TCAGCCATGAATTCA CTTCTCTTCAGGAGG TTTGGCTTGGC	A CTTC	TCTTCAGGAGG	TTTGGCTTGGC	ATGA	AAATACTTCATTC	AG A	GTATGGGCAAA	TGC T	TCTGGAAAACCC		2430
		2431 . 24	2445 2446		2460 2461	2475	2475 2476 2	2490 2491		2505	2506	2520	
ž H	2002	1 NOC2 CCCTGAAGAGAGAGA ACGTGTGTGTGTGT TCGGTGATCACACCC TCCCATCCTTGCTGC CTCCTGCCCCAAACC CCGGGTTCCTGGGTC	3A ACGT	GTGTGTGTG	TCGGTGATCAC	PACCC	TCCCATCCTTCCT	1 1 1	TCCTGCCCCAP	ACC 0	CGGGTTCCTGG		2189
2 N	NL1	CCCTGAAGAGAGA ACGTGTGTGTGTGT TOGGTGATCACACCC TCCCATCCTTCCTGC CTCCTGCCCCAAACC CCGGGTTCCTGGGTC	A ACGTO	srererere	TCGGTGATCAC	Accc '	TCCCATCCTTCCT	ઉ	TCCTGCCCCAA	ACC C	CGGGTTCCTGGG		2247
3	บี	3 LC1 CCCTGAAGAGAGA ACGTGTGTGTGTGT TCGGTGATCACACCC TCCCATCCTTCCTGC CTCCTGCCCCAAACC CCGGGTTCCTGGGTC	A ACGTO	STGTGTGTGTG	TCGGTGATCAC	Accc '	TCCCATCCTTCCT	g g	TCCTGCCCCAA	ACC C	CGGGTTCCTGGG		2334
4. Ľ	, C2	4 LC2 CCCTGAAGAGAGA ACGTGTGTGTGTGT TCGGTGATCACCCC TCCCATCCTTCCTGC CTCCTGCCCCAAACC CCGGGTTCCTGGGTC	A ACGTO	srererere	TCGGTGATCAC	Accc	TOCCATCOTTOOT	ပ္ပ	rccrecccaa	ACC C	CGGGTTCCTGGG		2400
S L	LC3 (CCCTGAAGAGAGA ACGTGTGTGTGTGT TCGGTGATCACCC TCCCATCCTTCCTGC CTCCTGCCCCAAACC CCGGGTTCCTGGGTC	A ACGTO	stetetete	TCGGTGATCAC	ACCC 1	TCCCATCCTTCCT	g G	TCCTGCCCCAA	ACC C	CGGGTTCCTGGG		2454
6 LC4		CCCTGAAGAGAGA ACGTGTGTGTGTGTG TCGGTGAICACCC TCCCATCCTTCCTGC CTCCTGCCCCAAACC CCGGGTTCCTGGGTC	A ACGTO	srererere	TCGGTGATCAC	Accc 1	TCCCATCCTTCCT	gc G	rccrecccaa	ACC C	CGGGTTCCTGGG		2520
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	,	2521 25	2535 2536		2550 2551	2565	2566	2580 2	2581	2595	2596	2610	
ž T	200	1 NOC2 TGGAAGGGCCTTCTC TCCAAGCTGGGAGCT CCTGGGCCCCCACCA TTCACTTTTGTCCT TGCTGCTGGCAAACA GTAAAGAAACTCACT	C TCCA	AGCTGGGAGCT	CCTGGGCCCCC	ACCA	TTCACTTTTGTC	ī. Ķ	GCTGCTGGCAA	ACA G	TAAAGAAACTCP		2279

								7070
Z Z	121	TGGAAGGGCCTTCTC '	TCCAAGCTGGGAGCT	CCTGGGCCCCCACCA	TTCACTTTT	IGGAAGGGCTICIC ICCAAGCIGGÁAGCI CCIGGGCCCCCACCA IICACTITITGÍCCI IGCIGGCAAACA GIAAAGAAACICACI	GTAAAGAAACICACI	5757
7	22	TGGAAGGGCCTTCTC '	TCCAAGCTGGGAGCT	cçTeGGCCCCCACCA	TTCACTTTT	LC2 TGGAAGGGCCTTCTC TCCAAGCTGGGAGCT CÇTGGGCCCCCACCA TTCACTTTTTGTCCT TGCTGGTGGAAACA GTAAAGAAACTCACT	GTAAAGAAACTCACT	2490
	ξ) Ε)	TGGAAGGGCCTTCTC '	TCCAAGCTGGGAGCT	ccreeeccccacca	TTCACTTT	LC3 TGGAAGGGCCTTCTC TCCAAGCTGGGAGCT CCTGGGCCCCCACCA TTCACTTTTTGTCCT TGCTGGCAAACA GTAAAGAAACTCACT	GTAAAGAAACTCACT	2544
ı ĭ	4. 2.	TGGAAGGGCCTTCTC '	TCCAAGCTGGGAGCT	CCTGGGCCCCCACCA	TTCACTTTT	5 LC4 TGGAAGGGCCTTCTC TCCAAGCTGGGAGCT CCTGGGCCCCCACCA TTCACTTTTTGTCCT TGCTGGCAAACA GTAAAGAAACTCACT	GTAAAGAAACTCACT	2610
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		2611 2625	2625 2626 2640	2640 2641 2655	2655 2656			
ž	OC2	NOC2 TICCCIGIGGCACGI TAIGCTICAGAAITA AAACAAIGAAGAITA AAA	TATGCTTCAGAATTA	AAACAATGAAGATTA	AAA 2327	<i>L</i> :		
Z 2	2 NL1	ITCCCTGTGGCACGT TATGCTTCAGAAITA AAACAATGAAGAITA AAA	TATGCTTCAGAATTA	AAACAATGAAGATTA	AAA 2385	ហ		
i e	3 LC1	ITCCCTGTGGCACGT TATGCTTCAGAATTA AAACAATGAAGATTA AAA	TATGCTTCAGAATTA	AAACAATGAAGATTA	AAA 2472	2		
4. <u>1</u>	TC5	ITCCCIGIGGCACGI TAIGCTICAGAATIA AAACAAIGAAGATIA AAA	TATGCTTCAGAATTA	AAACAATGAAGATTA	AAA 2538	ω		
5 L	5 1.03		TTCCCTGTGGCACGT TATGCTTCAGAATTA AAACAATGAAGATTA AAA	AAACAATGAAGATTA	AAA 2592	21		
1.	Š	6 LC4 TTCCCTGTGGCACGT TATGCTTCAGAATTA AAACAATGAAGATTA AAA	TATGCTTCAGAATTA	AAACAATGAAGATTA	AAA 2658	80	-	

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	1 15 19 19 19 19 19 19 19 19 19 19 19 19 19	DEC IVERTIFICATION	WSVHTYOTEKORRKO	HLSPAEVEAILQVIQ F	aerldvleqorigr	LVERLETMRRNVMGN	96
1 NOC	2 MADTIFGSGNDQWVC PNDKQLALKANLEXIS TOTTING TOTTING NATIFGSGNDQWVC PNDKQLALKANLEXIG RAFELDVLEQQRIGR LVERLETMRRNVMGN	PNDKQEALAAAAA	MONTH OF THE ROBBEO 1	HLSPAEVEAILOVIQ F	MERLDVLEQQRIGR	LVERLETMRRNVMGN	96
2 NLI	MADTIFGSGNDQWVC PNDRQLALKAKLQIG WOYNIIZISKENIKANIIZARAKA HISPARVEAILOVIQ RAERLDVLEQQRIGR LVERLETMRRNVMGN	PNDRQLALKAKLQTG		HISPAEVÉAILOVIO F	AERLDVLEQQRIGR	LVERLETMRRNVMGN	90
3 LC1		PNDRQLALRAKLQTG	MSVHT I UT ENGRANG				
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	91 105	105 106 120	1900000	W CETCSEOREVWKR	SGAWEYKGLPKYILP	LKTPGRADDPHFRPL	180
1 NOC.	1 NOC2 GLSQCLLCGEVLGEL GSSSVFCKDCRKKVC TKCGLEASFUQRAFL VLOALOSEKIONING SCANFYKGLPKYILP LKTPGRADEPQFRPW	GSSSVFCKDCRKKVC	TKCGI EAS FGQRRF D	CGIEASFGERKEL WLOGLOOLEGOODEN SGAWEYKGLEKYILE LKTPGRADEPQERPW	SGAWEYKGLPKYILP	LKTPGRADEPQFRPW	151
2 NL1		GSSSVFCKDCRK	 		PKYTI.P	LKTPGRADDPHERPL	180
3 LC1		GSSSVFCKDCRKKVC	tkcgieaspgokrpl	GLSQCLLCGEVLGFL GSSSVFCKDCRKKVC TKCG1EASPGQKRPL WLCKICSEQREVWKK SGAWFINGLINGER TO TKTPGRADDPHFRPL	GGRWS INGUITAGE	LKTPGRADDPHFRPL	98
4 LC2	GLSQCLLCGEVLGFL	GSSSVFCKDCRKKVC	TKCGIEASPGOKRPL	GLSQCILCGEVIGEL GSSSVFCKDCRKKVC TKCGIEASPGQKRPL WLCKICSEQREVWKK SGAWEINGLEITEL TYTTERPLOTENDPHFRPL	SGRWE INGLETATION	TWTDGBADDPHFRPL	180
5 LC3		GSSSVFCKDCRKKVC	TKCGIEASPGOKRPL	WLCKICSEOREVWKR	SGAWFYKGLPKYLLE	GLSQCLLCGEVLGFL GSSSVFCKDCRKKVC TKCGIEASPGQKRPL WLCKICSEQREVWKR SGAWFYKGLFKIILF LNIFGKALDIMMINE.	90
6 LC4		GSSSVFCKDCRKKVC	TKCGIEASPGQKRPL	WLCKICSEQREVWKR	SGAWFYKGLFKILLF	GLSQCLLCGEVLGFL GSSSVFCKDCRKKVC TKCGIEASPGQKRPL WLCKICSEQREVWKR SGAWFYKGLKKILLF LANFOLDENTENTENTENTENTENTENTEN	

	270	241	270	210	128	188							,	
256 270	PPGHLSGCQSSLASG	PAGHLFGLQSSLASG	PAGHLFGLQSSLASG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		PAGHLFGLQSSLASG					`			
241 255	RIYTWARGRVVSSDS DSDSDLSSSSLEDRL PSTGVRDRKGDKPWK ESGGSVEAPRWGFTH PPGHLSGCQSSLASG	ESGGSVEAPRMGFTQ PAGHLFGLQSSLASG	PSTGVRDRKGDKPWK ESGGSVEAPRMGFTQ PAGHLFGLQSSLASG			PTEPAEREPRSSETS RIYTWARGRVVSSDS DSDSDLSSSSLEDRL PSTGVRDRKGDKPWK ESGGSVEAPRMGFTQ PAGHLFGLQSSLASG	330	315	96	S.	2	0.	88.	
226 240	PSTGVRDRKGDKPWK	PSTGVRDRKGDKPWK	PSTGVRDRKGDKPWK	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		PSTGVRDRKGDKPWK	315 316 3		APAGPSSCLG 296	APAGPSSCLG 325	APAGPSSCLG 243	210	128	
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196	RIYTWARGRVVSSDS	RIYTWARGRVVSSDS	RIYTWARGRVVSSDS	RIYTWARGRVVGRKC	RIYTWARGRVVGRKC	RIYTWARGRVVSSDS	286	PRPGLTRR	SADPPGGPRPGLTRR	SADPPGGPRPGLTRR APVKDTPGRAPAADA APAGPSSCLG	SADPPGGPRPGLTRR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	} 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 1 8 1 8 1	•
181 195	1 NOC2 PTEPAEREPRSSETS	PTEPAEREPRSSETS RIYTWARGRVVSSDS	PTEPAEREPRSSETS RIYTWARGRVVSSDS DSDSDLSSSSLEDRL	PTEPAEREPRSSETS I	PTEPAEREPRSSETS RIYTWARGRVVGRKC	PTEPAEREPRSSETS	271 285	1 NOC2 ETGTGSADPPGG	ETGTGSADPPGGGTG SADPPGGPRPGLTRR APVKDTPGRAPAADA APAGPSSCLG	ETGTGSADPPGGGTG	ETGTGSADPPGGGTG SADPPGGPRPGLTRR APVKDTPGRAPAADA APAGPSSCLG			
	1 NOC2	2 NL1	3 LC1	4 LC3	5 LC4	6 LC2		1 NOC2	2 NL1	3 LC1	4 LC2	S LC3	6 LC4	